



>>Entry Name: 2-Anthracenecarboxylic acid, 9Cl

Synonym(s): Anthracene-β-carboxylic acid. β-Anthroic acid

CAS Registry Number: 613-08-1

Molecular Formula: C₁₅H₁₀O₂

Molecular Weight: 222.243

Accurate Mass: 222.06808

Percentage Composition: C 81.07%; H 4.54%; O 14.40%

Physical Description: Yellow leaflets (EtOH)

Melting Point: Mp 281°

Solubility: Mod. sol. hot EtOH

pKa Value: pK_a 4.18 (20°)

Rare Chemicals Library: S88311-5

>>Derivative: Me ester

CAS Registry Number: 25308-60-5

Molecular Formula: C₁₆H₁₂O₂

Molecular Weight: 236.27

Accurate Mass: 236.08373

Percentage Composition: C 81.34%; H 5.12%; O 13.54%

Melting Point: Mp 128°

>>Derivative: Amide

Molecular Formula: C₁₅H₁₁NO

Molecular Weight: 221.258

Accurate Mass: 221.084064

Percentage Composition: C 81.43%; H 5.01%; N 6.33%; O 7.23%

Physical Description: Yellow plates (AcOH)

Melting Point: Mp 293-295°

Hazard & Toxicity: Exp. carcinogen

>>Derivative: Hydrazide

CAS Registry Number: 2143-79-5

Molecular Formula: C₁₅H₁₂N₂O

Molecular Weight: 236.273

Accurate Mass: 236.094963

Percentage Composition: C 76.25%; H 5.12%; N 11.86%; O 6.77%

Use/Importance: Fluorescence derivatisation reagent for carbonyl compds.

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 241-244°

References:

Barnett, E. de B. *et al.*, *Ber.*, 1924, **57**, 1775, (*synth*)

Ferrari, J.L. *et al.*, *J.A.C.S.*, 1965, **87**, 1247, (*hydrazide, synth*)

Goto, J. *et al.*, *Anal. Sci.*, 1989, **5**, 399, (*hydrazide, synth, use*)

Sax, N.I., *Dangerous Properties of Industrial Materials*, 5th edn., Van Nostrand Reinhold, 1979, 382